



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/015,989A

DATE: 09/17/2004

TIME: 13:35:44

Input Set : A:\ORT1552 Seq Listing 9-2004.txt
 Output Set: N:\CRF4\09172004\J015989A.raw

3 <110> APPLICANT: Darrow, Andrew
 4 Qi, Jenson
 5 Andrade-Grodon, Patricia
 7 <120> TITLE OF INVENTION: Zymogen Activation System
 9 <130> FILE REFERENCE: ORT-1552
 11 <140> CURRENT APPLICATION NUMBER: 10/015,989A
 12 <141> CURRENT FILING DATE: 2001-12-10
 14 <150> PRIOR APPLICATION NUMBER: 09/303,162
 15 <151> PRIOR FILING DATE: 1999-04-30
 17 <160> NUMBER OF SEQ ID NOS: 60
 19 <170> SOFTWARE: PatentIn version 3.2
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 22 <211> LENGTH: 361
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Fusion Gene Vectors
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 34 gtggacgcgg ccgcctttgc tgccccctt gatgatgatg acaagatcgt tgggggctat 180
 36 gctctagata gcggccgctt cccttagtg agggtaatg ctgcagcag acatgataag 240
 38 atacattgtat gagtttgac aaaccacaac tagaatgcag tgaaaaaaaaat gctttatgg 300
 40 taaaaatttgt gatgctatttgc ctttatttgt aaccattata agctgcaata aacaagtgt 360
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 46 <211> LENGTH: 301
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Fusion Gene Vectors
 53 <400> SEQUENCE: 2
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 58 attacgccta gcggccgctt cccttagtg agggtaatg ctgcagcag acatgataag 180
 60 atacattgtat gagtttgac aaaccacaac tagaatgcag tgaaaaaaaaat gctttatgg 240
 62 taaaaatttgt gatgctatttgc ctttatttgt aaccattata agctgcaata aacaagtgt 300
 64 c
 67 <210> SEQ ID NO: 3
 68 <211> LENGTH: 484
 69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:



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73 <223> OTHER INFORMATION: Fusion Gene Vector
 75 <400> SEQUENCE: 3

76	gaattcacca	ccatggacag	caaaggttcg	tcgcagaaaat	ccgcctgct	cctgctgctg	60
78	gtggtgtcaa	atctactctt	gtgccagggt	gtggctccg	actacaaggaa	cgacgacgac	120
80	gtggacgcgg	ccgctttgc	tgccttttt	atcgaggggc	gcattgtgga	gggctcgat	180
82	ctagataccc	ctacgtgt	cccgattacg	ccgctagata	cccctacat	gtgcccgtt	240
84	acgcccgtag	ataccactac	gatgtgccc	attacgcgc	tagataccccc	tacgtatgtc	300
86	ccgattacgc	ctagcggccg	cttccttta	gtgagggtt	atgcttcgag	cagacatgtat	360
88	aagatacatt	gatgagtttgc	gacaaaccac	aactagaatg	cagtaaaaaa	aatgttttat	420
90	tttgaaattt	tgtgtatcta	ttgctttattt	tgttaaccatt	ataagctgca	ataaacaagt	480
92	tgac						484

95 <210> SEQ ID NO: 4
 96 <211> LENGTH: 382
 97 <212> TYPE: DNA

98 <213> ORGANISM: Artificial Sequence
 100 <220> FEATURE:
 101 <223> OTHER INFORMATION: Fusion Gene Vectors
 103 <400> SEQUENCE: 4

104	gaattcacca	ccatggacag	caaaggttcg	tcgcagaaaat	ccgcctgct	cctgctgctg	60
106	gtggtgtcaa	atctactctt	gtgccagggt	gtggctccg	actacaaggaa	cgacgacgac	120
108	gtggacgcgg	ccgctttgc	tgccttttt	atcgaggggc	gcattgtgga	gggctcgat	180
110	aactgtctag	acatcaccat	caccatca	agcggccgt	tcccttagt	gagggttaat	240
112	gtctcgagca	gacatgataa	gatacattga	tgagtttgg	caaaccacaa	ctagaatgca	300
114	tgaaaaaaa	tgctttattt	tgaaatttgc	tgtatgttattt	gtcttatttgc	taaccattat	360
116	aagctgcaat	aaacaagttg	ac				382

119 <210> SEQ ID NO: 5
 120 <211> LENGTH: 352
 121 <212> TYPE: DNA

122 <213> ORGANISM: Artificial Sequence
 124 <220> FEATURE:
 125 <223> OTHER INFORMATION: Fusion Gene Vectors
 127 <400> SEQUENCE: 5

128	gaattcacca	ccatggctt	cctctggctc	ctctcctgct	gggcctcct	ggtaccacc	60
130	ttcggctcg	gggtccccga	ctacaaggac	gacgacgac	cggccgcct	tgctgcccc	120
132	tttgatgtat	atgacaagat	cgttggggc	tatgtcttag	acatcaccat	caccatca	180
134	agcggccgt	tcccttagt	gagggttaat	gttcgagca	gacatgataa	gatacattga	240
136	tgagtttgg	caaaccacaa	ctagaatgca	tgaaaaaaa	tgcttatttgc	tgaaatttgc	300
138	tgtatgttattt	gtcttatttgc	taaccattat	aagctgcaat	aaacaagttg	ac	352

141 <210> SEQ ID NO: 6
 142 <211> LENGTH: 385
 143 <212> TYPE: DNA

144 <213> ORGANISM: Artificial Sequence
 146 <220> FEATURE:
 147 <223> OTHER INFORMATION: Fusion Gene Vectors
 149 <400> SEQUENCE: 6

150	gaattcacca	ccatggctt	cctctggctc	ctctcctgct	gggcctcct	ggtaccacc	60
152	ttcggctcg	gggtccccga	ctacaaggac	gacgacgac	cggccgcct	tgctgcccc	120
154	tttgatgtat	atgacaagat	cgttggggc	tatgtcttag	ataccctac	gatgtgccc	180
156	attacgccc	tagacatcac	catcaccatc	actagcggcc	gttccctt	agtgagggtt	240

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158	aatgcttcga gcagacatga taagatacat tgatgagttt ggacaaacca caactagaat	300
160	gcagtaaaaa aaatgttta tttgtgaaat ttgtgatgct attgcttat ttgttaaccat	360
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165	<210> SEQ ID NO: 7	
166	<211> LENGTH: 1169	
167	<212> TYPE: DNA	
168	<213> ORGANISM: Artificial Sequence	
170	<220> FEATURE:	
171	<223> OTHER INFORMATION: Fusion Gene With Homo Sapien Serine Protease Catalytic Domain	
173	<400> SEQUENCE: 7	
174	gaattcacca ccatggacag caaaggctcg tcgcagaaat cccgcctgct cctgctgctg	60
176	gtgggtgtcaa atctactctt gtgccagggt gtggctctcc actacaagga cgacgacgac	120
178	gtggacgcgg ccgcttgc tgccccctt gatgatgatg acaagatcg tgggggctat	180
180	gctctagagg ccggctcgtg gccctggcag gtcagcatca cctatgaagg cgtccatgtg	240
182	tgtgggtggct ctctcgtgtc tgagcagtgg gtgcgtgtcg ctgctcactg cttccccagc	300
184	gagcaccaca aggaagccta tgaggtcaag ctgggggccc accagctaga ctcttactcc	360
186	gaggacgcaca aggtcagcac cctgaaggac atcatcccc accccagcta cttccaggag	420
188	ggctcccagg ggcacattgc actcctccaa ctcagcagac ccatcacctt ctccgcgtac	480
190	atccggccca tctgcctccc tgcagccaa gcctccttcc ccaacggcct ccactgcact	540
192	gtcaactggct ggggtcatgt gggccctca gtgagcctcc tgacgccc aaactgcag	600
194	caactcgagg tgcctctgtat cagtcgtgag acgtgtact gcctgtacaa catcgacgcc	660
196	aaggctgagg agccgcactt tgtccaagag gacatgggtgt gtgcgtggta tgggggggg	720
198	ggcaaggacg cctggccaggg tgactctggg gggccactct cctgcccgt ggagggtctc	780
200	tggtaacctga cgggcattgt gagctggga gatgcctgtg gggcccgaaa caggcctgg	840
202	gtgtacactc tggcctccag ctatgcctcc tggatccaaa gcaagggtgac agaactccag	900
204	cctcgtgtgg tgccccaaac ccaggagtc cagccccaca gcaacctctg tggcagccac	960
206	ctggccttca gctctagaca tcaccatcac catcaactgc ggccgcttcc ctttagtgag	1020
208	ggttaatgtc tgcagcagac atgataagat acattgtga gtttgacca accacaacta	1080
210	gaatgcagtg aaaaaatgc ttatgtg aaattgtga tgctattgtc ttatgtaa	1140
212	ccattataag ctgcaataaa caagttgac	1169
215	<210> SEQ ID NO: 8	
216	<211> LENGTH: 1142	
217	<212> TYPE: DNA	
218	<213> ORGANISM: Artificial Sequence	
220	<220> FEATURE:	
221	<223> OTHER INFORMATION: Fusion Gene With Homo Sapien Serine Protease Catalytic Domain	
223	<400> SEQUENCE: 8	
224	gaattcacca ccatggctt cctctggctc ctctcctgct gggccctcct gggtaccacc	60
226	ttcggctcg gggccccga ctacaaggac gacgacgacg cggccgcctc tgctgcccc	120
228	tttgcgtatg atgacaagat ctttggggc tatgtcttag agggccgtca gtggccctgg	180
230	caggtcagca tcacccatga aggccgtccat gtgtgtggt gctctctcg gtctgagcag	240
232	tgggtgctgt cagtcgtctca ctgcctcccc agcgagcacc acaaggaagc ctatgagg	300
234	aagctggggg cccaccagct agactcctac tccgaggac ccaagggtcag caccctgaag	360
236	gacatcatcc cccaccctcag ctacccatccag gagggtccc agggcgacat tgcaactcctc	420
238	caactcagca gaccatcac cttctccgc tacatccgc ccatctgcct ccctgcagcc	480
240	aacgcctcc tccccaaacgg cttccactgc actgtcaactg gctggggtca tggggcccc	540
242	tcagtgagcc tcctgacgcc caagccactg cagcaactcg aggtgcctc gatcagtcgt	600
244	gagacgtgtc actgcctgtc caacatcgac gccaaggctg aggagccgca ctttgtccaa	660
246	gaggacatgg tggctgtgg ctatgtggag gggggcaagg acgcctgcca ggggtactct	720

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248 gggggcccac ttcctgccc tgtggagggt ctctggtacc tgacggcat tgtgagctgg    780
250 ggagatgcct gtggggcccg caacaggcct ggtgtgtaca ctctggcctc cagctatgcc    840
252 tcctggatcc aaagaaggta gacagaactc cagctctgtg tggtgccca aaccaggag    900
254 tcccagcccg acagcaacct ctgtggcagc cacctggct tcagctctag acatcaccat    960
256 caccatcaact agcggccgct tcccttagt gaggttaat gcttcgagca gacatgataa   1020
258 gatacattga tgagtttggaa caaaccacaa ctagaatgca gtgaaaaaaaaa tgcttattt   1080
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262 ac                                         1142

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265 <210> SEQ ID NO: 9

266 <211> LENGTH: 1049

267 <212> TYPE: DNA

268 <213> ORGANISM: Artificial Sequence

270 <220> FEATURE:

271 <223> OTHER INFORMATION: Fusion Gene With Homo Sapien Serine Protease Catalytic

Domain

273 <400> SEQUENCE: 9

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276 gtgggtgtcaa atctactctt gtgccagggt gtggctccg actacaagga cgacgacgac    120
278 gtggacgcgg ccgccttgc tgccccctt gatgtatgtg acaagatcg tggggctac    180
280 aactgtctag aaccccattc gcagccctgg cagggccct tggccaggcc ccaacta    240
282 ctctgtggcg gtgtccttgt aggtggcaac tggccctta cagctccca ctgtaaaaaaaaa   300
284 cccaaataca cagtacgcct gggagaccac agccatcaga ataaagatgg cccagagcaa   360
286 gaaatacctg tggttcagtc catccacac ccctgcatac acagcagcga tgtggaggac   420
288 cacaaccatg atctgtatgt tcttcaactg cgtgaccagg catccctggg gtccaaagtg   480
290 aagcccatca gcctggcaga tcattgcacc cagctggcc agaagtgcac cgtctcaggc   540
292 tggggactg tcaccagtcc ccgagagaat ttcttgaca ctctcaactg tgcagaagta   600
294 aaaatctttc cccagaagaa gtgtgaggat gcttaccggg ggcagatcac agatggcatg   660
296 gtctgtgcag gcagcagcaa aggggctgac acgtgccagg gcgattctgg aggccccctg   720
298 gtgtgtgatg gtgcactcca gggcatcaca ttctgggct cagaccctg tggaggtcc   780
300 gacaaacctg gctctatac caacatctgc cgctacctgg actggatcaa gaagatcata   840
302 ggcagcaagg gctctagaca tcaccatcac catcaactgc ggccgcttcc ctttagttag   900
304 gttaatgtc tcgagcagac atgataagat acattgtga gtttggacaa accacaacta   960
306 gaatgcagtg aaaaaatgc tttatttggaa atttgtga tgctattgtt ttatttggtaa  1020
308 ccattataag ctgcaataaa caagttgac                                         1049

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312 <211> LENGTH: 1052

313 <212> TYPE: DNA

314 <213> ORGANISM: Artificial Sequence

316 <220> FEATURE:

317 <223> OTHER INFORMATION: Fusion Gene With Homo Sapien Serine Protease Catalytic

Domain

319 <400> SEQUENCE: 10

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324 gtggacgcgg ccgccttgc tgccccctt gatgtatgtg acaagatcg tggggctac    180
326 aactgtctag aaaagcactc ccagccctgg cagggccccc tggccctga cagcagccca ctgcctcaag   240
328 ctctgtgggg cgacgctcat ccgcggccaga tggctcctga cagcagccca ctgcctcaag   300
330 ccccgctaca tagttcacct gggcagcac aacccatcaga aggaggagg ctgtgagcag   360
332 accccggacac ccactgagtc ttccccccac cccgcctca acaacaggct ccccaacaaa   420
334 gaccaccgcgca atgacatcat gctggtgaag atggcatcgc cagtcctcat cacctggct   480
336 gtgcgaccccc tcaccctctc ctcacgctgt gtcactgctg gcaccagctg cctcatttcc   540

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342	atggtgtgtg	ccagcgtgca	ggaagggggc	aaggactcct	gccagggtga	ctccgggggc	720
344	cctctggct	gtaaccagtc	tcttcaaggc	attatctct	ggggccagga	tccgtgtgcg	780
346	atcaccgaa	agcctgggt	ctacacgaaa	gtctgcaa	atgtggactg	gatccaggag	840
348	acgatgaaga	acaattctag	acatcaccat	caccatca	agcggccgct	tccctttagt	900
350	gagggttaat	gcttcgagca	gacatgataa	gatacattga	tgagtttga	caaaccacaa	960
352	ctagaatgca	gtgaaaaaaa	tgctttattt	gtgaaatttg	tgatgctatt	gctttatttg	1020
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358 <211> LENGTH: 328

359 <212> TYPE: PRT

360 <213> ORGANISM: Artificial Sequence

362 <220> FEATURE:

363 <223> OTHER INFORMATION: Fusion Gene With Homo Sapien Serine Protease Catalytic

Domain

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368	1 5 10 15
371	Val Val Ser Asn Leu Leu Leu Cys Gln Gly Val Val Ser Asp Tyr Lys
372	20 25 30
375	Asp Asp Asp Asp Val Asp Ala Ala Ala Leu Ala Ala Pro Phe Asp Asp
376	35 40 45
379	Asp Asp Lys Ile Val Gly Gly Tyr Ala Leu Glu Ala Gly Gln Trp Pro
380	50 55 60
383	Trp Gln Val Ser Ile Thr Tyr Glu Gly Val His Val Cys Gly Gly Ser
384	65 70 75 80
387	Leu Val Ser Glu Gln Trp Val Leu Ser Ala Ala His Cys Phe Pro Ser
388	85 90 95
391	Glu His His Lys Glu Ala Tyr Glu Val Lys Leu Gly Ala His Gln Leu
392	100 105 110
395	Asp Ser Tyr Ser Glu Asp Ala Lys Val Ser Thr Leu Lys Asp Ile Ile
396	115 120 125
399	Pro His Pro Ser Tyr Leu Gln Glu Gly Ser Gln Gly Asp Ile Ala Leu
400	130 135 140
403	Leu Gln Leu Ser Arg Pro Ile Thr Phe Ser Arg Tyr Ile Arg Pro Ile
404	145 150 155 160
407	Cys Leu Pro Ala Ala Asn Ala Ser Phe Pro Asn Gly Leu His Cys Thr
408	165 170 175
411	Val Thr Gly Trp Gly His Val Ala Pro Ser Val Ser Leu Leu Thr Pro
412	180 185 190
415	Lys Pro Leu Gln Gln Leu Glu Val Pro Leu Ile Ser Arg Glu Thr Cys
416	195 200 205
419	Asn Cys Leu Tyr Asn Ile Asp Ala Lys Pro Glu Glu Pro His Phe Val
420	210 215 220
423	Gln Glu Asp Met Val Cys Ala Gly Tyr Val Glu Gly Gly Lys Asp Ala
424	225 230 235 240
427	Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Cys Pro Val Glu Gly Leu
428	245 250 255
431	Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Asp Ala Cys Gly Ala Arg

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1

VERIFICATION SUMMARY

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